

ABSTRACT

A method of repairing a section of pipe is described. The method includes applying a first split sleeve and a second split sleeve to the pipe section, functionally associating the first end of the first split sleeve with the first end of the second split sleeve, and applying a compressive force until the internal diameter of the pipe experiences compressive shear hoop strain. The method described produces substantially uniform compressive hoop strain along the length of the pipe section, and may exceed a predetermined value, such as 100 microstrain in compression, for example. The amount of force required may be calculated utilizing maximum operating conditions. The method described may produce an acceptable permanent repair by ensuring that the inner diameter of the section of pipe experiences compressive strain. Also described is a method of reinforcing a section of pipe utilizing these apparatus and methods.